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NEWSLETTER

THE LYCEUM

VOICE OF ECM

CONTENT



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ABOUT THE DEPARTMENT

Department of Electronics and Computer Science (ECS) is a course that aims to combine two separate fields of engineering to meet demands made by electronics and computer industries. This program has been developed in response to the industry demands to develop students hardware and software engineering skills in an integrated way. Our curriculum focuses on many real-time applications, which includes smart homes, smart city, smart traffic management, smart agriculture, healthcare applications, web designing, cyber security, automotive electronics, environmental monitoring etc.

The undergraduate course mainly focuses on electronics courses like analog electronics, digital electronics, embedded system, communication system and computer courses like logical thinking, data structures and algorithms, DBMS, Web development, computer network, software engineering. Internet of Things (IoT), Machine Learning, Artificial Intelligence, Deep Learning etc. Our department provides a specialization in Embedded Systems, Web Technologies, IoT (Internet of things), VLSI, Artificial Intelligence and Machine Learning etc. And department offering one Post Graduation programme, (Embedded Systems) which suits for industrial needs.

The Course helps the students to enter into various professions as Embedded Engineers, Firmware Engineers, Software Engineers, Software Developers, Web Application Developers, IoT Application Developers, Automobile Electronics Engineers, ICT (information Communication Technology) Engineers, VLSI Engineers, Forensic Engineer etc. Many companies need engineers with hardware and software knowledge, and our students conform to their requirements. Our department provides proficiency in many aspects of the student's career like assistance for master degree program both in and out of the country through GATE, GRE, TOFEL, IELTS etc.

OUR VISION

To impart value-based, state-of-the-art education and motivate students to become socially committed professionals for their overall development

OUR MISSION

To promote innovation centric education and perform cutting edge research in interdisciplinary and multidisciplinary areas

FACULTY ARTICLE

COMPUTING THE STARS

Astronomers are using AI, supercomputing, and the cloud to organize a universe of data. Space scientists collect more and more data, observatories around the world are finding new ways to apply supercomputing, cloud computing, and deep learning to make sense of it all. Here are some examples of how these technologies are changing the way astronomers study space.

How has the night sky changed? As much as astronomy has expanded, the field has been slow to integrate cloud computing. The Vera C. Rubin Observatory, currently under construction in Chile, will become the first astronomical institution of its size to adopt a cloud-based data facility. When the observatory starts up in 2024, the data its telescope captures will become available as part of the Legacy Survey of Space and Time (LSST) project, which will create a catalogue thousands of times larger than any previous survey of the night sky. Past surveys were almost always downloaded and stored locally, which made it hard for astronomers to access each other's work.

"We are making a map of the full sky," says Hsin-Fang Chiang, a member of the Rubin's data management team. And in the process, they are building "a huge data set that's going to be useful for many different kinds of science in astronomy.

The 10-year project will deliver a 500-petabyte set of data and images to the cloud, to help astronomers answer questions about the structure and evolution of the universe. "For each position in the sky, we'll have more than 800 images there," says Chiang. "You could even see what happened in the past. So especially for supernovas or things that change a lot, then that's very interesting."

The Rubin Observatory will process and store 20 terabytes of data every night as it maps the Milky Way and places beyond. Astronomers affiliated with the project will be able to access and analyze that data from anywhere via a web browser. Eventually, the images the telescope takes every night will be converted into an online database of stars, galaxies, and other celestial bodies.

By comparing 4,000 simulations, scientists could rewind time and ask why some places in the universe are rife with cosmic activity while others are barren.



Mrs. S. Sridevi,
Assistant professor



FACULTY ARTICLE

EN ROUTE

A food delivery service in China is using Bluetooth to track orders more accurately. A driver in Beijing for the food delivery service Eleme, makes about a dozen deliveries per shift. But he could make more—and spill less—if he didn't have to constantly get his phone out to update his status. "I have to log in every few minutes on the app to avoid being penalized if the delivery is late because of the restaurant," he says.

In China, fierce competition and the promise of instant delivery drive delivery apps to seek a technological edge. Now Eleme, one of the main players, has rolled out a vast indoor detection system to track drivers and ensure that customers receive their food on time. Wireless advances and the explosion of connected devices—including smartphones have made this system possible. Eleme, which has 83 million monthly active users, is owned by the tech giant Alibaba, which also owns Taobao, one of the world's biggest e-commerce platforms. Since launching the new system in hundreds of Chinese cities starting in 2018, Eleme says, it has saved merchants \$8 million in refunds to customers for problems with their deliveries, including lateness. Indoor localization systems based on Wi-Fi and radio-frequency identification do work, but Bluetooth is by far the cheapest, most reliable option. Its accuracy is roughly 10 meters, good enough to detect people walking into a shop or restaurant. In early 2018, Alibaba placed more than 12,000 Bluetooth beacons in shops across Shanghai. Beacons emit signals that are picked up by drivers' phones in the form of "ID tuples." The app uploads each tuple to the platform's servers, where it's matched with merchant IDs, and the system logs where and when the signal was sent. Similar networks are widely used for tracking goods, people, and services. One of the largest is in London's Gatwick Airport, where around 2,000 Bluetooth beacons are installed. But Eleme's is one of the first to be built out on a city scale. To take its system to more cities in China, Alibaba exploited the fact that mobile phones can also act as Bluetooth beacons. Apple introduced this function for iOS devices in 2013, and similar features are now widely available on other smartphones.



FACULTY ARTICLE

Using this technology, more than 3 million merchants and a million drivers signed on to a pilot program to use their phones as beacons or receivers, delivering 3.9 billion orders to 186 million customers in 364 Chinese cities.

For now, the system simply acts as a check on the driver's own logs, and it still requires drivers and merchants to have the app open on their phones to guarantee a connection. If drivers try to report their arrival before their phone receives a signal from a merchant's phone, the app sends a "too early" prompt.

It's not perfect—merchants can game the system by disabling Bluetooth, so couriers' apps don't log the time they spent waiting to pick up an order. And virtual beacons are less reliable than physical ones. In theory, having more accurate data on drivers' locations means the system can better assign upcoming jobs and ensure that drivers can complete their deliveries in time. Alibaba says automation makes delivery drivers' work easier, but it may also intensify pressures on the job.

Alibaba hopes drivers' phones could one day become both beacons and receivers so their handsets could locate each other without relying on merchants' virtual beacons. The security and privacy implications of operating so many beacons are unclear. Pannuto says the scale with which Alibaba has expanded the system is impressive. He isn't convinced it will be replicated elsewhere, but in China, where delivery remains cheap and demand high, companies are eager to find any way to outshine the competition.

Mrs. K.Krishnaveni
Assistant Professor



STUDENT ARTICLE



It's the Christmas season once again. For many of us Christmas means celebrations, decorations, shopping, partying and enjoyment. Is this really what Christmas is all about?

It's a definite 'NO'. Then what does Christmas remind us of? What is Christmas? Yes, Christmas reminds us that more than 2000 years ago Jesus, the son of God was born. Jesus came as a Saviour of the world..to save mankind by dying on a cross.

Jesus taught us through His life on Earth as an example- to live in simplicity and humility, to love one another as God loves us, to care for the needy and poor and to forgive those who hurt us.

We now await for the second coming of Jesus as He promised to come again to give His people eternal life where there would be no more pain or death.

Let's await the second coming of Jesus and be prepared by living a worthy meaningful life-care, share love and forgive.

So Christmas is all about caring, sharing, loving our neighbours and forgiving all those who hurt us. It's the time to become better human beings and spread love peace and joy not just ay Christmas but all through the coming year too!



JOSEPHINE RAMASWAMY
190050022



STUDENT SAYINGS

Once my coach have said me

"IF YOU WANT TO BE STRONG LEARN HOW TO FIGHT ALONE"

What Can we do when all the strengths and dreams of yours are getting shattered away at the same time.

everything is being taken back to the place where it all started. My mind and my body are not ready to start the same journey of struggle again.

No support asked or No support given

All you get is sympathy Not Support.

The Moment when you realise that the journey you are going to take is with you and yourself, your hands start to shake, legs start to shiver, the world starts to turn and fear all around.

The only option you have is to RUN

Run Run Run.....

Run until you get tired

Run until you reach the final destination

Run until you come into the present

Run until you get into reality

carrying wounds that never show on the body that are deeper and more hurtful than anything that bleeds.

My brain is not ready to take the load again

What can you think of ?

Whom can you share these things with?

Parents?

Dreams?

Friends?

People around you..?

I can understand I'm not seeking an easy life

I'm just seeking strength.

everything that you see is darkness

you are exactly in the middle of dark world

Sitting alone on the terrace Looking at the Dark night sky

Listening to the old sad Lo-Fi music

Searching for the hope

and waiting for that one shooting star to come.

In the midst of Darkness, I could literally hear my heart cry in a rhythm that no one can understand better than me. Which later became a loop in my head.

How can I even Explain it to the people?

Behind my smile is a breaking heart,

behind my laugh I'm falling apart,

behind my eyes are tears at night,

Behind my body is a soul trying to fight.

Are you still waiting for luck to come...?

LuCk That's one thing which you have to create for yourself.

Nights passed, Days gone.

I am still Fighting for the Light in the Darkness

There is no way to escape

Run or Quit.



K.BHUVAN SAI
190050027

**STUDENT
POETRY**

TRIBUTE TO SRI SIRIVENNELA SEETHARAMA SASTRY GARU

నా కలానికి బలం తగ్గింది...
 నా గళానికి వణుకు పుట్టింది..!
 తెలుగు తల్లికి పుత్రాశోకం...
 తల్లడిల్లింది తెలుగు లోకం..!
 మృదువైన పదాలు...
 పదువైన అక్షరాలు..!
 ఉత్సాహపరిచే వాక్యాలు...
 ఉల్లాసపరిచే గేయాలు..!
 మంచిని పంచే మాటలు...
 మనసుని కదిలించే పాటలు..!
 సెలవంటూ ఆగిన మీ ఊపిరి...
 వెల్లువలా వినిపించే మీ పాటల
 పల్లవుల కోసం వేచి చూసే వేలాది గుండెల
 ఎదురుచూపులకు నిరాశే మిగిల్చింది..!
 “సిరి” లాంటి అక్షరాలతో నిచ్చిన వేసుకుంటూ...
 “వెన్నెల” కలిగిన ఆకాశానికి చేరిన గురువుగారు...
 మీ ప్రతి పాట ఎప్పటికీ మెరిసే ఓ ధృవతారే..!

SIRIVENNELA SEETHARAMA SASTRY GARU
(Inspiration behind my writings)



P.NARENDRA
 190050053

~NAreN



FACULTY ACHIEVEMENTS



FACULTY ACHIEVEMENTS



Hearty Congratulations :

Mrs. Krishnaveni Kommuri - ECM Department,
Sincere appreciation for exceeding the given target of Knowledge Sharing Sessions well ahead, and in early duration. Keep it up.

Team @ KL Alumni Relations Cell



FACULTY ACHIEVEMENTS



FACULTY ACHIEVEMENTS





KL
GROUP OF INSTITUTIONS

Supported By:



Our Partners



Certificate

OF APPRECIATION

THIS CERTIFICATE IS AWARDED TO

Krishnaveni Kommuri

FOR HIS/HER SERVICE AS A JURY FOR "TECH SPEAK 4.0"
COMPETITION HOSTED BY KLEF-CEA HELD ON 29TH OCTOBER 2021.





Dr. P. Copi Krishna
Prof. Incharge CEA



Dr. K. Ravindranath
Associate Dean
Extension Activities



Dr. A. Srinath
Dean Skill Development



Dr. K.R.S. PRASAD
Dean Student Affairs



STUDENT ACHIEVEMENTS



TALScouts™
GUIDING YOUTH TO SERVE

TRANSFORMERS 2021

FINAL PITCH FEST

Topic / Idea: Low-power, Wrist-worn Device for Long Time Heart Rate Monitoring and Fall Detection

SDG: Good Health and Well being

Mentor



Dr. P. Gopi Krishna
Associate Professor



T Sai Deepika
3rd YEAR



B Jyothish
3rd YEAR



KL UNIVERSITY
(DEDICATED TO BE)



TRANSFORMERS 2021
Global Youth Social Innovation Challenge

Social Entrepreneurship - Colleges
2nd RUNNER-UP

Team Name: Spark
Project: Wrist Worn Device
Institution: KL University

TALScouts™
GUIDING YOUTH TO SERVE



STUDENT ACHIEVEMENTS

The Family of ECM is proud of the glory bagged by T.Deepika and B. Aditya of the Y19 batch by securing 2nd Runner Up in the Transformers 2021, a global youth innovation challenge out of 50+ Institutions participating from all over the country. Hearty Congratulations to the Mentoring Faculty and the team

TRANSFORMERS 2021

Global Youth Social Innovation Challenge

presented to the team

Spark

Project Name: Low-power, Wrist-worn
Device for Long Time
Institution: KL University

Represented by: Sai Deepika Tade,
Jyothir Adithya Barla

FOR SOCIAL ENTREPRENEURSHIP INNOVATION
towards UN SDGs in the event
TALScouts TRANSFORMERS 2021



T.SAI DEEPIKA
190050063

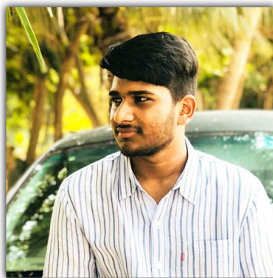


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ESSENCE
Elegant Student Synergy
of
Electronics and Computer Engineers



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KLEF

KONERU LAKSHMAIAH EDUCATION FOUNDATION
(Deemed to be university estd, u/s, 3 of the UGC Act, 1956)
(NAAC Accredited "A" Grade University)



Merry Christmas

